

MDR-TB diagnosis and treatment targets<sup>1,2,3</sup>

| Country Name                      | 2018 | 2019  | 2020  | 2021  | 2022  | Cumulative 2018-2022 |
|-----------------------------------|------|-------|-------|-------|-------|----------------------|
| Afghanistan                       | 204  | 288   | 920   | 2,300 | 2,900 | 6,612                |
| Albania                           | 1    | 2     | 5     | 13    | 17    | 38                   |
| Algeria                           | 42   | 65    | 241   | 618   | 784   | 1,750                |
| American Samoa                    | 0    | 0     | 0     | 0     | 0     | 0                    |
| Andorra                           | 0    | 0     | 0     | 0     | 0     | 0                    |
| Angola                            | 542  | 650   | 1,500 | 3,200 | 3,900 | 9,792                |
| Anguilla                          | 0    | 0     | 0     | 0     | 0     | 0                    |
| Antigua and Barbuda               | 0    | 0     | 0     | 0     | 0     | 0                    |
| Argentina                         | 92   | 106   | 203   | 393   | 439   | 1,233                |
| Armenia                           | 97   | 97    | 135   | 220   | 242   | 791                  |
| Aruba                             | 0    | 0     | 0     | 0     | 0     | 0                    |
| Australia                         | 23   | 24    | 28    | 38    | 38    | 151                  |
| Austria                           | 4    | 4     | 8     | 14    | 15    | 45                   |
| Azerbaijan                        | 860  | 901   | 1,200 | 1,900 | 2,000 | 6,861                |
| Bahamas                           | 0    | 0     | 0     | 0     | 0     | 0                    |
| Bahrain                           | 2    | 2     | 3     | 3     | 3     | 13                   |
| Bangladesh                        | 933  | 1,100 | 2,600 | 5,600 | 6,900 | 17,133               |
| Barbados                          | 0    | 0     | 0     | 0     | 0     | 0                    |
| Belarus                           | 985  | 952   | 1,200 | 1,700 | 1,800 | 6,637                |
| Belgium                           | 9    | 10    | 15    | 24    | 25    | 83                   |
| Belize                            | 0    | 0     | 4     | 12    | 15    | 31                   |
| Benin                             | 16   | 19    | 39    | 81    | 97    | 252                  |
| Bermuda                           | 0    | 0     | 0     | 0     | 0     | 0                    |
| Bhutan                            | 59   | 64    | 89    | 138   | 144   | 494                  |
| Bolivia (Plurinational State of)  | 55   | 65    | 134   | 281   | 340   | 875                  |
| Bonaire, Saint Eustatius and Saba | 0    | 0     | 0     | 0     | 0     | 0                    |
| Bosnia and Herzegovina            | 0    | 0     | 0     | 0     | 0     | 0                    |
| Botswana                          | 87   | 98    | 175   | 330   | 359   | 1,049                |
| Brazil                            | 917  | 968   | 1,300 | 2,000 | 2,100 | 7,285                |
| British Virgin Islands            | 0    | 0     | 0     | 0     | 0     | 0                    |
| Brunei Darussalam                 | 0    | 0     | 0     | 0     | 0     | 0                    |
| Bulgaria                          | 26   | 26    | 29    | 34    | 33    | 148                  |

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|---------------------------------------|-------|-------|--------|--------|--------|----------------------|
| Burkina Faso                          | 58    | 65    | 123    | 247    | 295    | 788                  |
| Burundi                               | 51    | 61    | 139    | 304    | 372    | 927                  |
| Cabo Verde                            | 2     | 3     | 9      | 21     | 27     | 62                   |
| Cambodia                              | 135   | 171   | 416    | 939    | 1,200  | 2,861                |
| Cameroon                              | 138   | 180   | 499    | 1,200  | 1,500  | 3,517                |
| Canada                                | 16    | 16    | 19     | 24     | 22     | 97                   |
| Cayman Islands                        | 0     | 0     | 0      | 0      | 0      | 0                    |
| Central African Republic              | 86    | 89    | 106    | 144    | 148    | 573                  |
| Chad                                  | 50    | 72    | 240    | 600    | 758    | 1,720                |
| Chile                                 | 34    | 37    | 56     | 96     | 105    | 328                  |
| China                                 | 6,100 | 8,200 | 24,200 | 55,300 | 64,500 | 158,300              |
| China, Hong Kong SAR                  | 32    | 35    | 40     | 45     | 50     | 202                  |
| China, Macao SAR                      | 3     | 5     | 8      | 10     | 12     | 38                   |
| Colombia                              | 192   | 205   | 302    | 509    | 572    | 1,780                |
| Comoros                               | 1     | 2     | 7      | 19     | 24     | 53                   |
| Congo                                 | 29    | 48    | 185    | 478    | 609    | 1,349                |
| Cook Islands                          | 0     | 0     | 0      | 0      | 0      | 0                    |
| Costa Rica                            | 4     | 4     | 5      | 7      | 7      | 27                   |
| Côte d'Ivoire                         | 321   | 380   | 819    | 1,800  | 2,100  | 5,420                |
| Croatia                               | 0     | 0     | 0      | 0      | 0      | 0                    |
| Cuba                                  | 9     | 10    | 14     | 21     | 22     | 76                   |
| Curaçao                               | 0     | 0     | 0      | 0      | 0      | 0                    |
| Cyprus                                | 0     | 0     | 0      | 0      | 0      | 0                    |
| Czech Republic                        | 4     | 4     | 8      | 14     | 15     | 45                   |
| Democratic People's Republic of Korea | 1,600 | 1,800 | 2,700  | 4,500  | 4,800  | 15,400               |
| Democratic Republic of the Congo      | 854   | 1,100 | 2,700  | 6,100  | 7,500  | 18,254               |
| Denmark                               | 0     | 0     | 0      | 0      | 0      | 0                    |
| Djibouti                              | 72    | 76    | 85     | 110    | 105    | 448                  |
| Dominica                              | 0     | 0     | 0      | 0      | 0      | 0                    |
| Dominican Republic                    | 104   | 108   | 127    | 172    | 168    | 679                  |
| Ecuador                               | 223   | 223   | 223    | 223    | 223    | 1,115                |
| Egypt                                 | 130   | 195   | 686    | 1,700  | 2,200  | 4,911                |

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| Country Name               | 2018   | 2019   | 2020   | 2021    | 2022    | Cumulative 2018-2022 |
|----------------------------|--------|--------|--------|---------|---------|----------------------|
| El Salvador                | 16     | 20     | 45     | 99      | 121     | 301                  |
| Equatorial Guinea          | 31     | 34     | 51     | 89      | 101     | 306                  |
| Eritrea                    | 23     | 25     | 38     | 65      | 71      | 222                  |
| Estonia                    | 33     | 32     | 38     | 54      | 57      | 214                  |
| Eswatini                   | 174    | 177    | 199    | 266     | 262     | 1,078                |
| Ethiopia                   | 691    | 844    | 2,000  | 4,500   | 5,500   | 13,535               |
| Fiji                       | 1      | 1      | 2      | 4       | 4       | 12                   |
| Finland                    | 5      | 5      | 7      | 11      | 11      | 39                   |
| France                     | 79     | 79     | 80     | 81      | 75      | 394                  |
| French Polynesia           | 2      | 2      | 2      | 1       | 1       | 8                    |
| Gabon                      | 16     | 29     | 129    | 343     | 438     | 955                  |
| Gambia                     | 9      | 12     | 36     | 88      | 110     | 255                  |
| Georgia                    | 302    | 299    | 374    | 539     | 561     | 2,075                |
| Germany                    | 0      | 0      | 0      | 0       | 0       | 0                    |
| Ghana                      | 114    | 142    | 353    | 803     | 991     | 2,403                |
| Greece                     | 0      | 0      | 0      | 0       | 0       | 0                    |
| Greenland                  | 1      | 2      | 2      | 1       | 1       | 7                    |
| Grenada                    | 0      | 0      | 0      | 0       | 0       | 0                    |
| Guam                       | 3      | 3      | 4      | 4       | 5       | 19                   |
| Guatemala                  | 62     | 64     | 79     | 110     | 114     | 429                  |
| Guinea                     | 169    | 186    | 309    | 573     | 666     | 1,903                |
| Guinea-Bissau              | 25     | 31     | 70     | 155     | 190     | 471                  |
| Guyana                     | 14     | 15     | 19     | 27      | 27      | 102                  |
| Haiti                      | 120    | 134    | 236    | 456     | 525     | 1,471                |
| Honduras                   | 18     | 21     | 41     | 85      | 96      | 261                  |
| Hungary                    | 16     | 15     | 15     | 18      | 17      | 81                   |
| Iceland                    | 0      | 0      | 0      | 0       | 0       | 0                    |
| India                      | 36,200 | 39,700 | 66,100 | 122,300 | 142,300 | 406,600              |
| Indonesia                  | 3,100  | 3,700  | 8,600  | 19,000  | 23,200  | 57,600               |
| Iran (Islamic Republic of) | 45     | 51     | 85     | 150     | 164     | 495                  |
| Iraq                       | 101    | 109    | 174    | 311     | 358     | 1,053                |
| Ireland                    | 4      | 4      | 4      | 4       | 4       | 20                   |

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|----------------------------------|-------|-------|-------|-------|-------|----------------------|
| Israel                           | 7     | 7     | 8     | 12    | 12    | 46                   |
| Italy                            | 0     | 0     | 0     | 0     | 0     | 0                    |
| Jamaica                          | 0     | 0     | 1     | 2     | 3     | 6                    |
| Japan                            | 77    | 93    | 199   | 405   | 458   | 1,232                |
| Jordan                           | 10    | 20    | 30    | 40    | 45    | 145                  |
| Kazakhstan                       | 4,600 | 4,100 | 4,500 | 5,800 | 5,700 | 24,700               |
| Kenya                            | 395   | 471   | 1,000 | 2,300 | 2,800 | 6,966                |
| Kiribati                         | 3     | 3     | 5     | 10    | 10    | 31                   |
| Kuwait                           | 7     | 10    | 15    | 18    | 20    | 70                   |
| Kyrgyzstan                       | 1,200 | 1,300 | 2,000 | 3,500 | 4,000 | 12,000               |
| Lao People's Democratic Republic | 34    | 39    | 72    | 142   | 168   | 455                  |
| Latvia                           | 25    | 23    | 32    | 51    | 56    | 187                  |
| Lebanon                          | 7     | 9     | 10    | 12    | 14    | 52                   |
| Lesotho                          | 144   | 182   | 414   | 905   | 1,100 | 2,745                |
| Liberia                          | 56    | 66    | 147   | 320   | 391   | 980                  |
| Libya                            | 10    | 30    | 50    | 70    | 90    | 250                  |
| Lithuania                        | 256   | 256   | 283   | 330   | 325   | 1,450                |
| Luxembourg                       | 1     | 1     | 1     | 1     | 1     | 5                    |
| Madagascar                       | 19    | 32    | 132   | 344   | 439   | 966                  |
| Malawi                           | 59    | 68    | 135   | 276   | 331   | 869                  |
| Malaysia                         | 98    | 113   | 228   | 461   | 519   | 1,419                |
| Maldives                         | 1     | 1     | 2     | 3     | 3     | 10                   |
| Mali                             | 35    | 44    | 116   | 270   | 336   | 801                  |
| Malta                            | 0     | 0     | 0     | 0     | 0     | 0                    |
| Marshall Islands                 | 0     | 0     | 0     | 0     | 0     | 0                    |
| Mauritania                       | 20    | 24    | 50    | 107   | 130   | 331                  |
| Mauritius                        | 2     | 2     | 2     | 3     | 3     | 12                   |
| Mexico                           | 205   | 230   | 419   | 821   | 973   | 2,648                |
| Micronesia (Federated States of) | 1     | 1     | 2     | 4     | 4     | 12                   |
| Monaco                           | 0     | 0     | 0     | 0     | 0     | 0                    |
| Mongolia                         | 217   | 224   | 278   | 375   | 363   | 1,457                |
| Montenegro                       | 0     | 0     | 0     | 0     | 0     | 0                    |

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**MDR-TB diagnosis and treatment targets<sup>1,2,3</sup>**

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|--------------------------|--------|--------|--------|--------|--------|----------------------|
| Montserrat               | 0      | 0      | 0      | 0      | 0      | 0                    |
| Morocco                  | 218    | 229    | 311    | 467    | 474    | 1,699                |
| Mozambique               | 843    | 1,100  | 3,000  | 7,000  | 8,800  | 20,743               |
| Myanmar                  | 2,700  | 3,300  | 7,400  | 16,300 | 20,000 | 49,700               |
| Namibia                  | 386    | 414    | 559    | 812    | 820    | 2,991                |
| Nauru                    | 0      | 0      | 0      | 0      | 0      | 0                    |
| Nepal                    | 430    | 468    | 739    | 1,300  | 1,500  | 4,437                |
| Netherlands              | 11     | 11     | 13     | 16     | 15     | 66                   |
| New Caledonia            | 1      | 1      | 2      | 2      | 2      | 8                    |
| New Zealand              | 0      | 0      | 0      | 0      | 0      | 0                    |
| Nicaragua                | 35     | 36     | 37     | 36     | 34     | 178                  |
| Niger                    | 73     | 90     | 216    | 487    | 599    | 1,465                |
| Nigeria                  | 2,000  | 3,500  | 8,700  | 19,200 | 23,600 | 57,000               |
| Niue                     | 0      | 0      | 0      | 0      | 0      | 0                    |
| Northern Mariana Islands | 0      | 0      | 0      | 0      | 0      | 0                    |
| Norway                   | 10     | 9      | 9      | 9      | 8      | 45                   |
| Oman                     | 0      | 0      | 0      | 0      | 0      | 0                    |
| Pakistan                 | 3,100  | 3,800  | 9,500  | 21,800 | 26,900 | 65,100               |
| Palau                    | 0      | 0      | 0      | 0      | 0      | 0                    |
| Panama                   | 50     | 51     | 59     | 77     | 77     | 314                  |
| Papua New Guinea         | 312    | 364    | 755    | 1,600  | 1,900  | 4,931                |
| Paraguay                 | 9      | 11     | 25     | 55     | 64     | 164                  |
| Peru                     | 1,500  | 1,500  | 2,100  | 3,200  | 3,300  | 11,600               |
| Philippines              | 5,500  | 6,200  | 11,500 | 22,800 | 27,100 | 73,100               |
| Poland                   | 44     | 43     | 52     | 74     | 74     | 287                  |
| Portugal                 | 10     | 10     | 13     | 19     | 20     | 72                   |
| Puerto Rico              | 0      | 0      | 0      | 0      | 0      | 0                    |
| Qatar                    | 8      | 9      | 10     | 11     | 12     | 50                   |
| Republic of Korea        | 788    | 751    | 928    | 1,300  | 1,300  | 5,067                |
| Republic of Moldova      | 902    | 885    | 1,100  | 1,600  | 1,700  | 6,187                |
| Romania                  | 384    | 386    | 459    | 613    | 618    | 2,460                |
| Russian Federation       | 21,700 | 22,200 | 29,500 | 45,100 | 48,500 | 167,000              |

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|---|-------|--------|--------|--------|--------|----------------------|
| Rwanda                                    | 77    | 80     | 99     | 140    | 146    | 542                  |
| Saint Kitts and Nevis                     | 0     | 0      | 0      | 0      | 0      | 0                    |
| Saint Lucia                               | 0     | 0      | 0      | 0      | 0      | 0                    |
| Saint Vincent and the Grenadines          | 0     | 0      | 0      | 0      | 0      | 0                    |
| Samoa                                     | 0     | 0      | 0      | 0      | 0      | 0                    |
| San Marino                                | 0     | 0      | 0      | 0      | 0      | 0                    |
| Sao Tome and Principe                     | 3     | 4      | 9      | 19     | 22     | 57                   |
| Saudi Arabia                              | 20    | 30     | 50     | 70     | 100    | 270                  |
| Senegal                                   | 42    | 49     | 98     | 202    | 243    | 634                  |
| Serbia                                    | 6     | 7      | 10     | 18     | 20     | 61                   |
| Serbia & Montenegro                       | 0     | 0      | 0      | 0      | 0      | 0                    |
| Seychelles                                | 0     | 0      | 0      | 0      | 0      | 0                    |
| Sierra Leone                              | 105   | 123    | 259    | 548    | 664    | 1,699                |
| Singapore                                 | 18    | 19     | 28     | 44     | 46     | 155                  |
| Sint Maarten (Dutch part)                 | 1     | 1      | 0      | 0      | 0      | 2                    |
| Slovakia                                  | 7     | 6      | 7      | 10     | 10     | 40                   |
| Slovenia                                  | 0     | 0      | 0      | 0      | 0      | 0                    |
| Solomon Islands                           | 0     | 0      | 3      | 9      | 11     | 23                   |
| Somalia                                   | 273   | 338    | 829    | 1,900  | 2,300  | 5,640                |
| South Africa                              | 9,600 | 10,100 | 11,100 | 12,100 | 11,100 | 54,000               |
| South Sudan                               | 13    | 33     | 180    | 495    | 638    | 1,359                |
| Spain                                     | 0     | 0      | 0      | 0      | 0      | 0                    |
| Sri Lanka                                 | 22    | 24     | 41     | 76     | 88     | 251                  |
| Sudan                                     | 104   | 139    | 401    | 959    | 1,200  | 2,803                |
| Suriname                                  | 0     | 0      | 3      | 9      | 10     | 22                   |
| Sweden                                    | 10    | 10     | 11     | 13     | 13     | 57                   |
| Switzerland                               | 18    | 19     | 24     | 32     | 31     | 124                  |
| Syrian Arab Republic                      | 10    | 19     | 93     | 243    | 291    | 656                  |
| Tajikistan                                | 550   | 607    | 1,000  | 1,900  | 2,200  | 6,257                |
| Thailand                                  | 858   | 958    | 1,700  | 3,300  | 3,900  | 10,716               |
| The Former Yugoslav Republic of Macedonia | 0     | 0      | 0      | 0      | 0      | 0                    |
| Timor-Leste                               | 5     | 13     | 78     | 216    | 279    | 591                  |

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|--|-------|-------|--------|--------|--------|----------------------|
| Togo   | 25    | 26    | 33     | 47     | 48     | 179                  |
| Tokelau  | 0     | 0     | 0      | 0      | 0      | 0                    |
| Tonga  | 0     | 0     | 0      | 0      | 0      | 0                    |
| Trinidad and Tobago                                  | 2     | 2     | 3      | 6      | 6      | 19                   |
| Tunisia  | 19    | 20    | 28     | 42     | 43     | 152                  |
| Turkey   | 203   | 216   | 310    | 487    | 509    | 1,725                |
| Turkmenistan   | 326   | 316   | 337    | 408    | 382    | 1,769                |
| Turks and Caicos Islands                             | 0     | 0     | 0      | 0      | 0      | 0                    |
| Tuvalu   | 1     | 1     | 0      | 0      | 0      | 2                    |
| Uganda   | 110   | 171   | 625    | 1,600  | 2,000  | 4,506                |
| Ukraine  | 7,900 | 7,900 | 10,100 | 14,900 | 15,200 | 56,000               |
| United Arab Emirates                                 | 1     | 2     | 3      | 3      | 3      | 12                   |
| United Kingdom of Great Britain and Northern Ireland | 48    | 45    | 54     | 75     | 74     | 296                  |
| United Republic of Tanzania                          | 170   | 218   | 575    | 1,300  | 1,700  | 3,963                |
| United States of America                             | 137   | 143   | 181    | 251    | 250    | 962                  |
| Uruguay  | 4     | 4     | 5      | 6      | 6      | 25                   |
| Uzbekistan   | 2,200 | 2,400 | 3,500  | 6,000  | 6,700  | 20,800               |
| Vanuatu  | 1     | 1     | 2      | 3      | 3      | 10                   |
| Venezuela (Bolivarian Republic of)                   | 73    | 83    | 158    | 318    | 379    | 1,011                |
| Viet Nam   | 2,700 | 2,900 | 4,000  | 6,200  | 6,400  | 22,200               |
| Wallis and Futuna Islands                            | 0     | 0     | 0      | 0      | 0      | 0                    |
| West Bank and Gaza Strip                             | 0     | 0     | 0      | 0      | 0      | 0                    |
| Yemen  | 44    | 54    | 129    | 290    | 357    | 874                  |
| Zambia   | 264   | 324   | 722    | 1,600  | 1,900  | 4,810                |
| Zimbabwe   | 425   | 455   | 822    | 1,500  | 1,700  | 4,902                |

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